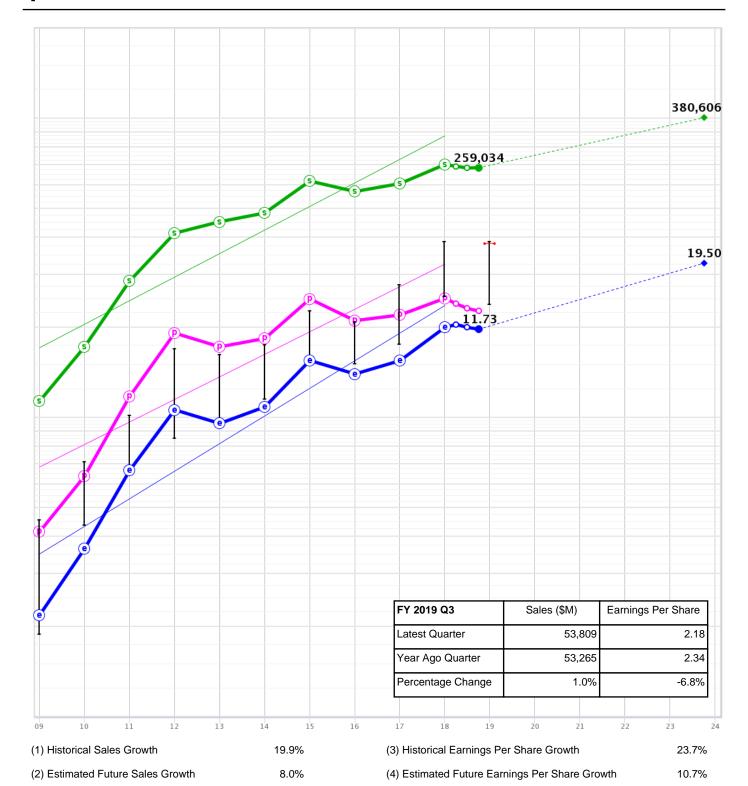


### Stock Selection Guide

Company Apple Date 10/09/19						
Prepared by Fitts	Data taken from BI Stock Data					
Where traded NAS Industry	Consumer Electronics					
Capitalization Outstanding Amounts Reference						
Preferred (\$M)	0.0 % Insiders % Institution					
Common (M Shares)	4,601.4 0.2 80.6					
Debt (\$M) 108,418.0 % to Tot (	Cap 52.9 % Pot Dil 0.7					

Symbol: AAPL

### VISUAL ANALYSIS of Sales, Earnings, and Price



	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	Last 5 Year Avg.
Pre-tax Profit on Sales	28.1%	28.4%	31.6%	35.6%	29.3%	29.3%	31.0%	28.5%	28.0%	27.4%	28.8%
% Earned on Equity	25.8%	29.0%	33.6%	37.1%	29.0%	31.3%	40.9%	35.0%	35.7%	49.3%	38.4%
% Debt To Capital	0.0%	0.0%	0.0%	0.0%	12.1%	24.0%	35.1%	40.4%	46.3%	51.7%	39.5%

## PRICE-EARNINGS HISTORY as an indicator of the future

This shows how stock prices have fluctuated with earnings and dividends. It is building block for translating earnings into future stock prices. **CLOSING PRICE** 227.03 (10/09/19) HIGH THIS YEAR 229.93 LOW THIS YEAR 142.00

	Α	В	С	D	E	F	G	Н
Year	Pri	ce	Earnings	Price Earn	ings Ratio	Dividend	% Payout	% High Yield
	High	Low	Per Share	High A / C	Low B / C	Per Share	F/C*100	F/B*100
2014	103.7	68.3	6.45	16.1	10.6	1.81	28.1	2.7
2015	134.5	92.0	9.22	14.6	10.0	1.98	21.5	2.2
2016	123.8	89.5	8.31	14.9	10.8	2.18	26.2	2.4
2017	164.5	104.1	9.21	17.9	11.3	2.40	26.1	2.3
2018	229.7	150.2	11.91	19.3	12.6	2.72	22.8	1.8
AVERAGE		100.8		16.5	11.1		24.9	
CURRENT/TTM			11.73			3.08	26.3	
AVERAGE PRICE EA	CURRENT PRICE EARNINGS RATIO: 19.4							

# 4 EVALUATING RISK and REWARD over the next 5 years

Assuming one recession and one business boom every 5 years, calculations are made of how high and how low the stock might sell. The upside-downside ratio is the key to evaluating risk and reward.

#### A HIGH PRICE - NEXT 5 YEARS

Avg. High P/E 13.0 X Estimate High Earnings/Share 19.50 Forecasted High Price \$ 253.5

#### **B LOW PRICE - NEXT 5 YEARS**

(a) Avg. Low P/E 13.0 X Estimate Low Earnings/Share 11.73 Forecasted Low Price \$ 152.5

(b) Avg. Low Price of Last 5 Years 100.8 (c) Recent Market Low Price 104.1

Indicated Dividend 3.08 (d) Price Dividend Will Support 116.2 2.65% High Yield

Selected Forecasted Low Price \$ 152.5

### **C ZONING** using 25%-50%-25%

Forecasted High Price 253.5 Minus Forecasted Low Price 152.5 101.0 Range. 25% of Range 25.3

> Buy Zone 152.5 177.8 to Hold Zone 177.8 228.3 to 228.3 253.5 Sell Zone

Present Market Price of 227.03 is in the Zone HOLD

#### D UPSIDE DOWNSIDE RATIO (POTENTIAL GAIN VS. RISK OR LOSS)

High Price 253.5 Minus Present Price 227.03 To 1 0.4 Present Price 227.03 152.5 Minus Low Price

#### E PRICE TARGET (Note: This shows the potential market price appreciation over the next five years in simple interest terms.)

253.5 High Price 1.1166 X 100 111.66 11.7 % Appreciation 100 Closing Price 227.03

### **5-YEAR POTENTIAL**

This combines price appreciation with dividend yield to get an estimate of total return. It provides a standard for comparing income and growth stocks.

Α	Indicated Annual Dividend	2.72					
	Closing Price	227.02	- =	0.0136	=	1.4 %	Current Yield
	CIUSITIU FIICE	221.00					

### **B AVERAGE YIELD - USING FORECAST HIGH P/E**

**AVERAGE YIELD - USING FORECAST AVERAGE P/E** Avg. % Payout Avg. % Payout 1.9 %

#### 1.9 % Forecast High PE Forecast Average PE 13.00 C COMPOUND ANNUAL RETURN - USING FORECAST HIGH P/E COMPOUND ANNUAL RETURN - USING FORECAST AVG P/E

#### **Annualized Appreciation Annualized Appreciation** 2.2 % 2.2 % 1.9 % Average Yield 1.9 % Average Yield Annualized Rate of Return 4.1 % Annualized Rate of Return 4.1 %



Company: Apple Symbol: AAPL

Notes: AAPL 10/10/19

estimate (§.5 and 6.4)/2 = 8  My EPS growth estimate is preferred procedure changed taxes back to 18.3 default and outstanding shares to VL 4000 estimate. Pre-tax profit margin is 27 to follow downward trend. High and Low PrEs are trending upwardNo outliers. Low price calculated at 80% of current price.  Apple Products: -IPhones, IPads, App Store, Apple Watch, Apple Pay, iTunes, smart-home products, plus moreApple allows Samsung to feature iTunes video content on smart tv's + Airplay 2 (ability to instantly mirror your IOS, i.e. macbook, iPhone) -China isn't performing as well as expected, why? Per Bloomberg, slow economy, high prices, and less consumers taking short-term loans. Chinese competitors, Huawei Tech. and Xiaomi Corp. have offered cheaper phones that have made an impact on iPhone sales in China.  Growth opportunity: -streaming video-service with original content; not sure if this is through Apple TV or will be available on multiple flatforms -self-driving car project -AR (augmented reality) -Apple Pay -EPS expected to increase from 11.91 to 13.65 per value line -15.9% increase in sales from 2017 to 2018 -2.72 dividend, expected to increase to 3.12 for 2019 -\$147.93 1/7/19 closing price -2.72 dividend, expected to increase to 3.12 for 2019 -\$147.93 1/7/19 closing price -2.72 dividend, expected to increase to 3.12 for 2019 -\$147.93 1/7/19 closing price -2.72 dividend, expected to increase to 3.12 for 2019 -\$147.93 1/7/19 closing price -2.72 dividend, expected to increase to 3.12 for 2019 -\$147.93 1/7/19 closing price -2.72 dividend, expected to increase to 3.12 for 2019 -\$147.93 1/7/19 closing price -2.72 dividend, expected to increase to 3.12 for 2019 -\$147.93 1/7/19 closing price -2.72 dividend, expected to increase to 3.12 for 2019 -\$147.93 1/7/19 closing price -2.72 dividend, expected to increase to 3.12 for 2019 -\$147.93 1/7/19 closing price -2.72 dividend, expected to increase to 3.12 for 2019 -\$147.93 1/7/19 closing price -2.72 dividend expected to increase to 3.12 for 2019 -\$147.93 1/7/19	Date	Subject	Description	Туре
i-Phones, iPads, App Store, Apple Watch, Apple Pay, iTunes, smart-home products, plus more.  -Apple allows Samsung to feature iTunes video content on smart tv's + Airplay 2 (ability to instantly mirror your IOS, i.e. macbook, iPhone)  -China isn't performing as well as expected, why? Per Bloomberg, slow economy, high prices, and less consumers taking short-term loans. Chinese competitors, Huawei Tech. and Xiaomi Corp. have offered cheaper phones that have made an impact on iPhone sales in China.  Growth opportunity: -streaming video-service with original content; not sure if this is through Apple TV or will be available on multiple flatforms-self-driving car project -AR (augmented reality) -Apple Pay -EPS expected to increase from 11.91 to 13.65 per value line -15.9% increase in sales from 2017 to 2018 -2.72 dividend, expected to increase to 3.12 for 2019 -\$147.93 1/7/19 closing price  12/29/18  New VL Dec 2018  Update  December 2018 - VL 12/18 T2 S2 Note the Services margin & growth rate! - Zone: BUY - Forecasted Low Price: 373.0 - Forecasted Low Price: 150.0 - Closing Price (12/28/18): 156.23 - Upside Downside Ratio: 34.8 To 1 - Potential Price Appreciation: 138.8% - Total Return (High P/E): 20.1% - Projected Return (Avg P/E): 14.7% - Buy price to satisfy US/DS of 3 to 1 and 15% total return: 194.2  - Buy Below price based on zoning selection: 205.9 - RELATIVE VALUE Current PE: 13.2 / Average 5 Year PE: 13.8 X 100 = 95.3% - PROJECTED RELATIVE VALUE Projected PE: 11.6 / Forecast Average P/E: 13.3 X 100 = 87.2% - PEG Ratio Projected PE: 11.6 / Forecast EPS Growth Rate: 13.0% = 0.9	04/24/19	change in judgments	estimate (9.5 and 6.4)/2 = 8 My EPS growth estimate is preferred procedure changed taxes back to 18.3 default and outstanding shares to VL 4000 estimate. Pre-tax profit margin is 27 to follow downward trend. High and Low P/Es are trending upwardNo outliers. Low	Community
Update  growth rate!  * Zone: BUY  * Forecasted High Price: 373.0  * Forecasted Low Price: 150.0  * Closing Price (12/28/18): 156.23  * Upside Downside Ratio: 34.8 To 1  * Potential Price Appreciation: 138.8%  * Total Return (High P/E): 20.1%  * Projected Return (Avg P/E): 14.7%  * Buy price to satisfy US/DS of 3 to 1 and 15% total return: 194.2  * Buy Below price based on zoning selection: 205.9  * RELATIVE VALUE Current PE: 13.2 / Average 5 Year PE: 13.8 X 100 = 95.3%  * PROJECTED RELATIVE VALUE Projected PE: 11.6 / Forecast Average P/E: 13.3 X 100 = 87.2%  * PEG Ratio Projected PE: 11.6 / Forecast EPS Growth Rate: 13.0% = 0.9	01/07/19	Apple update	-iPhones, iPads, App Store, Apple Watch, Apple Pay, iTunes, smart-home products, plus more.  -Apple allows Samsung to feature iTunes video content on smart tv's + Airplay 2 (ability to instantly mirror your IOS, i.e. macbook, iPhone)  -China isn't performing as well as expected, why? Per Bloomberg, slow economy, high prices, and less consumers taking short-term loans. Chinese competitors, Huawei Tech. and Xiaomi Corp. have offered cheaper phones that have made an impact on iPhone sales in China.  Growth opportunity: -streaming video-service with original content; not sure if this is through Apple TV or will be available on multiple flatforms-self-driving car project -AR (augmented reality) -Apple Pay -EPS expected to increase from 11.91 to 13.65 per value line -15.9% increase in sales from 2017 to 2018 -2.72 dividend, expected to increase to 3.12 for 2019	Community
12/22/18 RE Ratio Lowered PE to 14 Community	12/29/18		growth rate!  * Zone: BUY  * Forecasted High Price: 373.0  * Forecasted Low Price: 150.0  * Closing Price (12/28/18): 156.23  * Upside Downside Ratio: 34.8 To 1  * Potential Price Appreciation: 138.8%  * Total Return (High P/E): 20.1%  * Projected Return (Avg P/E): 14.7%  * Buy price to satisfy US/DS of 3 to 1 and 15% total return: 194.2  * Buy Below price based on zoning selection: 205.9  * RELATIVE VALUE Current PE: 13.2 / Average 5 Year PE: 13.8 X 100 = 95.3%  * PROJECTED RELATIVE VALUE Projected PE: 11.6 / Forecast Average P/E: 13.3 X 100 = 87.2%  * PEG Ratio Projected PE: 11.6 / Forecast EPS Growth Rate:	Community
	12/22/18	RE Ratio	Lowered PE to 14	Community